

CURRICULUM VITAE

As of May 2020

Jeffrey Paul Chanton

Fellow, American Geophysical Union

Robert O. Lawton Distinguished Professor

John W. Winchester Professor of Oceanography

Aldo Leopold Fellow

Tallahassee Scientific Society Gold Metal, 2018.

**Department of Earth, Ocean and Atmospheric Science, Florida State University,
Tallahassee, Florida 32306**

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A. Education

New College Natural Sciences A.B. 1975

UNC-Chapel Hill Marine Sciences M.S. 1979

UNC-Chapel Hill Marine Science PhD. 1985

B. Experience

2010. Professor, Dept. of Earth, Ocean and Atmospheric Science, Florida State University.

1997. Professor, Dept. of Oceanography, Florida State University. Concurrent Doctoral Directive Status in the Department of Chemistry and Biochemistry.

1993. Associate Professor, Dept. of Oceanography, Florida State University.

1988. Assistant Professor, Dept. of Oceanography, Florida State University.

1987. Research Assistant Professor, UNC Chapel Hill.

2016-2001 Consultant to the Waste Industry (Waste Management, Veolia, Creed) on solutions for methane emissions, methane oxidation and sulfate bearing waste and recycled materials.

C. Awards

2018. Nobel "Peat" Prize for top international peatland paper Tropical peatland carbon storage linked to global latitudinal trends in peat chemistry, Hodgkins et al., Nature Communications, 2018. given by the M. Waddington, the Canadian Research Chair in Ecohydrology.

McMaster University Professor

2018. Tallahassee Scientific Society Gold Metal

2017. Robert O. Lawton Distinguished Professor

2017. Guardian of the Flame Award for Service to Florida State University

2015. Fellow, American Geophysical Union.

2015. Top 10 Water Analysis and Environmental Papers (Environmental Science and Technology's most significant papers of the last 18 months), for Chanton et al., 2015.

- 2014. Transformation through Teaching, FSU Spiritual Life Project.
- 2009. Editor's citation for outstanding reviewer, Limnology and Oceanography.
- 2008. William H. Patrick Jr. Memorial Lecturer at the Soil Science Society of America Annual Meeting, Houston, TX
- 2006. Distinguished Research Professor Award, Florida State University
- 2005. Aldo Leopold Fellowship Award
- 2005. Florida Wildlife Federation Conservation Communicator of the Year
- 2003. Awarded named Professorship, John W. Winchester Professor of Oceanography.
- 1993. Developing Scholar Award, Florida State University.

D. My Research encompasses ten different areas:

1. Permafrost Decomposition in the Arctic
2. Wetlands-- peatland Carbon cycling in northern high latitudes and tropical systems
3. Using Radiocarbon to determine the fate of Deep Water Horizon Oil and Gas
2. Food webs-- trophic relationships in estuaries
3. Reducing methane emissions to the atmosphere, designing landfill cover soils, which promote the growth of methane-consuming bacteria
4. Seeking solutions to allow large scale beneficial reuse of residual screen material, a by product of recycling facilities and a product containing gypsum, or calcium sulfate
5. Sulfur cycling in marine sediments and sulfur isotopes as an indicator of the strength of sulfate reduction
6. Methane gas hydrates, which some estimate may be a large reservoir of fossil fuel to be mined
7. Groundwater discharge, an overlooked process which is important to the nutrient budgets of coastal waters
8. Nutrient inputs to aquifers from septic tank discharge, groundwater tracing

E. Graduate Degrees Supervised

Ph.D. Dissertations Supervised/Year of Completion/Current Position

| | |
|--------------------------|--|
| James Happell | 1992 Faculty, University of Miami |
| Jennifer Cherrier | 1997 <i>co-advised (with J. Bauer)</i> . Faculty, New York City University |
| Glynnis Bugna | 1999 Research Faculty, Florida A & M University, Wetlands Center. |
| Joanne Lombardi | 1999 Industry. |
| Lynda Chasar | 2002 US Geological Survey |
| Kevin Dillon | 2003 Faculty, University of Southern Mississippi. |
| Carl Childs | 2004 <i>co-advised (with Lita Proctor)</i> . NOAA. |
| Jim Prater | 2005 Office of Naval Research. |
| Laura Lapham | 2007 <i>Co-advised (with Chris Martens at UNC-Chapel Hill)</i> . Faculty, University of Maryland. |
| Issac Santos | 2008 <i>Co-advised (with William Burnett)</i> , Southern Cross University, Au. |

Rachel Wilson 2010 National Research council position Florida State University, Adjunct Asst. Prof.

Linda Fitzhugh, 2011 Faculty, Florida Gulf Coast State College.

James Nelson 2011 Faculty University of Louisiana

Jiyoung Paeng 2012 Post doctoral position in Korea

Jane E. Corbett 2012 NASA postdoctoral fellowship, now at Columbia University, NY

Amanda Tazaz 2013 Science Educator, Florida State University

Alexandra Harper 2016 co-advised with William Landing, NOAA Knauss Fellowship, now with Monterrey Bay Aquarium Insitute

Suzanne Hodgkins 2016 at Ohio State University

Puja Jasrotia 2016. Florida department of Environmental Protection

Kelsey Rogers 2018. Postdoctoral fellowship Danish Technical University.

Oceanography M.S. Supervised

- Ghislain Gerard 1992
- Harmon Harden 1992
- Heidi Hertler 1993
- Michelle Epp 1993
- Glynnis Bugna 1995
- Mark Schrope 1995
- Trevor Popp 1998
- Kevin Dillon 1998
- Karen Liptay 1998
- Linda Rasmussen 2000
- Edward Toy 2000
- Dana Fields 2004
- Chad Hanson 2004
- Kelly Peeler 2004
- Jillian Fleiger 2006
- Kirsten Eller 2010 Co-advised
- Kristina Welch 2013
- Kelsey Rogers 2014
- Tyler Mauney 2015
- Erica Rau (coadvised with Y.Wang) 2016
- Alejandra Mickle (co advised with D. Grubbs) 2016
- Brittany Verbeke 2018
-

Aquatic Environmental Science MS Supervised.

- John Hallas 2006
- Barbara Thomlinson 2007
- Lela BATTERY 2008
- Kirk Clausen 2008
- Karen Shudes 2009
- Tim McGann 2009
- Beth Kostka 2010

- Corinne Rogalny 2010
- Alex Kaflin 2011
- Fara Illami 2011
- Kristen Humphries 2013
- Gonzalo Gonzales-Jurado 2013
- Dayma Wasmund-Nault 2013
- Shawna Kinsey 2013
- Ryan Venable 2013
- Sarah M. Hovey 2014
- Cullen C. Morris 2014
- Kiels T. Sims 2014
- Youzhu Wang 2014
- Jason R. Baum 2014
- Ethan Bright 2015
- Andrew Briscoe 2015
- Reo Morris 2015
- Cindi Fischler 2015
- Molly Edson 2015
- Andrea Wylie 2016
- Kristin Perkins 2016
- Cameron Jones 2017
- Savanna Pitard 2017
- Thomas Vatter 2017
- Daniel Wolfe 2017
- Tyler Kirkpatrick 2017
- Rose Luzader 2017
- Savanna Christy 2018
- Corrine Bradley 2018
- Jaime Rubel 2019
- Lauren Chaphe 2019
- Dalia Al-Haleem 2019
- Mikaela Kirkland 2019
- Madison Harris 2019
- Nicholas Rodriguez 2019
- Christina Omran 2020
- David Hsu 2020

Baccalaureate Theses Supervised in the Dept. of Chemistry and Biochemistry and EOAS

- Mackenzie Baysinger 2019
- Alton Pulton 2018
- Heather Levy 2018
- Chente Ortiz 2017
- Brittany Rose Winkler 2016
- Kathryn Chandler 2015
- Claire A.S. Blaskiewicz 2014
- Angela Renee Dial 2010
- Laura Lapham 1997
- Mathew Sampson 1996

- Trevor Popp 1995
- Kim Percy 1993
-

Current Graduate Students

Ph.D. Alexandra Corey

M.S. Mackenzie Baysinger

Baccalaureate Angela Siebert

Current Post docs & Research Faculty:

- Dr. Katy Sparrow

Previous Post Docs

- Dr. Rachel Wilson
- Dr. Beth Huettel
- Dr. Suzanne Hodgkins
- Dr. Cedric Magin
- Dr. Koenraad Mathieu
- Dr. Behzad Mortazavi
- Dr. David Powelson
- Dr. Laura Lapham
- Dr. Ji Young Paeng
- Dr. Malak Tfaily
- Dr. Elena Steponaitis

Dissertation and Thesis Committees

Current Outside Committee Member PhD

At FSU, Johanna Imhoff, Biology, Ian Varga, History

At FSU Engineering, Christian Kankam Wireko, Haykel Melaouhia (graduated 2017)

Mingyan Chin, engineering, graduated 2020. Bently Higgs (2016).

Chemistry 2018. Rebecca Lynn Ware

Brandon Nusser, in progress, Joseph Frye, in progress

At the University of Florida, Beverly Barnett, food webs and radiocarbon.

At the University of South Florida, Amy Wallace, food web isotope tracing, graduated 2020.

At the University of Queensland, Australia, Lizanne Obersky, landfill methane, graduated 2019.

MS. Casey Lazius, 2018, Natalie Montero 2018, Anthony Gillis 2018, Tayla Lovmore 2020,

Megan Benke 2020, Kyle Compare 2020, Mackey Violich MS 2019, Jennifer Rogers

PhD Committees.

Travis Drake PhD 2018

Sarah Ellen Johnston, 2019

Brian Wells 2019

John Kaba 2019

Matthew Ware 2019

Lauren Gillies Campbell 2019

Brian Keller PhD 2020

Behnke, Megan. I.,

Baccalaureate committees,

Angel Siebert, 2021.
Miranda Brown, 2019
Lauren Gottfried, 2018
Taylor Budine, 2018
Kyle Compare 2018

Promotion and tenure letters written in 2017

2017. Elsie Sunderland, Harvard University
2017. Leila Hamdan, University of Southern Mississippi
2018. Arne Diercks, University of Southern Mississippi
2018. Katey Walter-Anthony, University of Alaska
2018. Susan Lang, University of South Carolina
2018. Jonathan Nichols, Columbia University
2018. Mohammed A. Wedyan, the Hashemite University, Jordan
2019. Karen Frey, Clark University
2019. Hussain Abdulla, Texas A & M University, CC
2019. Case reviewer for USDA-ARS research position evaluation system RPES) for Kurt Spokas
2019. Eben Thoma, US-EPA, Research Triangle Park, NC. .
2020. Alexander Cobb. Singapore-MIT Alliance for Research and Technology.

F. Invited Presentations

2019. American Geophysical Union, annual meeting, San Francisco, California, December 12.
2019. Institute for Senior Professionals at Northwest Florida State College, November 19, 2019.
2019. Zahner Lecture, Highlands Biological Foundation, Highlands, University of Western Carolina, August 1, 2019.
2019. Invited seminar, Francis Weston Audubon, Annual Meeting, Pensacola State College, Milton, Florida, May 16, 2019.
2019. Invited Seminar College of Environmental Science and Oceanography, Louisiana State University, Baton Rouge, April 5, 2019.
2019. American Society of Limnology and Oceanography, Winter 2019 Meeting. Invited Tutorial Lecture Dissolved Organic Matter with a focus on terrestrial systems. February 27, 2019, San Juan, Puerto Rico.
2018. Peatland organic mater reactivity across latitudinal gradients. University of North Carolina Marine Science Department. November 6, 2018.
2018. Tallahassee Scientific Society, Climate History since the Cretaceous. September 16, Challenger Learning Center.
2017. Detecting Anthropogenic Environmental Effects with Radiocarbon. Woods Hole Oceanographic Institution, September 28, 2017.
2017. Latitudinal gradients in peat carbon lability. Mer Bleue Peatland Meeting, McGill University, Montreal, Quebec, Canada, June 12-14, 2017.
2016. Ahead of the Tide. Rising Waters: Threats to people, beaches and wildlife. Cavu Educational Series of webcasts.
2016. American Society of Limnology and Oceanography, Santa Fe, NM. Radiocarbon tracing of Petrocarbon following the Deep Water Horizon Oil Spill. June, 2016.

2016. Florida American Chemical Society Annual Meeting. Clearwater, Fl, Tracers in the Gulf: Tracing the Deepwater Horizon Oil Spill. May 6, 2016.

2016. Oil Spill Science Meeting for First Responders, Seagrant. NOAA gulf of Mexico Disaster Response Center, Mobile, Al. Tracers in the Gulf. April 14, 2016.

2016. Oil spill and Ecosystem Science Conference, Tampa Florida. Isotope Tracing of the Effects of the Deep Water Horizon Oil Spill. February, 2016.

2016. Oil spill and Ecosystem Science Conference, Tampa Florida. Sea Level Rise, the Nuts and Bolts of an Inescapable Coastal Driver. February, 2016.

2015. American Geophysical Union Fall Meeting. Stability of Peatlands to Increased Temperature. December, 2015.

2015. Teaching Controversial Subjects, Climate Change to Evolution. FCR STEM conference, Orlando, Florida. December 2015.

2015. Tracers in the Gulf. Hoffman Environmental Chemistry Lecture, FSU Department of Chemistry. April 17, 2015.

2015. The Canary in the Climate Change Coal Mine, New Topics Lecture, New College, Sarasota Florida. March, 2015.

2014. Invited speaker American Geophysical Union Fall Meeting, San Francisco.

2014. Invited Speaker, University of North Carolina at Chapel Hill, Department of Marine Science

2014. Invited Speaker, FSU student chapter American Meteorological Society

2014. Invited Speaker, Department of Geography, Florida State University, September 12, 2014.

2014. Invited Speaker, Florida Gas Association, Clearwater,, Florida, June 27-28, 2014.

2014. Invited Speaker, Gordon Research Conference on Gas Hydrates, Galveston Texas, March 24-28, 2014.

2014. Invited Speaker, University of Arizona, Soil and Environmental Science Department.

2013. Invited Speaker, University of South Florida, Marine Science Program.

2013. Invited Speaker, University of Georgia, Marine Science Program.

2011. American Geophysical Union Annual Meeting, San Francisco. Permafrost

2011. American Geophysical Union Annual Meeting, San Francisco. Climate Change Education.

2011. Gas Hydrates. To the Florida Natural Gas Association. Naples, Fl June 24.

2010. International Goldschmidt Conference on Geochemistry. Knoxville, Tenn.. June 14-19

2010. American Water Resources Association, Wakulla Springs, May 21

2010. Solid Waste Association of North America Landfill Gas Conference, San Diego, CA. 3/8-11.

2010. University of Illinois, January 14.

2009. American Geophysical Union Meeting San Francisco, December.

2008. 38th Underwater Mining Institute Marine Minerals Meeting, Oxford, Mississippi, Nov.

2008. Florida Electric Cooperative Association, Annual conference, Clearwater, Florida, August,

2008. Florida Chapter of the American Planning Association.

2008. Florida State University College of Law.

2007. Florida Municipal Electric Association, Florida Municipal Power Association Annual conference, Palm Beach, FL, July 18.

2007. International Baccalaureate Program, Rickards High School, March.

2007. Waste Technology, Landfill Technologies Conference, March, 2007, Miami Beach.

2007. Ohio State University.

2006. American Geophysical Union Fall Meeting.

2006. FSU College of Law.

2006. FSU Department of Biology.

2006. American Geophysical Union, San Francisco.

2005. Rotary Club

2005. Civitan Club.

2004. Utah State University.

2004. University of Florida.

2004. UNOCAL conference on hydrocarbon migration and mitigation in soils.

2003. Keynote speaker and session leader. Finnish Environmental Conference, Joensuu, Finland, May, 2003.

2002. Soil Science Society of America, Annual Meeting. Indianapolis, November, 2002.

2000. Gas Hydrate International Research Workshop, Washington, DC, October 2002.

2002. 2nd Intercontinental Landfill Research Symposium, Ashville, NC. October, 2002.

2002. Solid Waste Association of North America, Monterey, California, March, 2002.

2002. Florida Fish and Wildlife Conservation Commission.

2002. Panel on non-point source pollution of the coastal zone to President Bush's Ocean Commission, St. Petersburg, FL, February, 2002.

2000. Florida A&M University, November.

1999. XVI International Botanical Congress, St. Louis, Missouri, August 1-7. .

1999. Tulane University, New Orleans, Louisiana

1999. University of Delaware.

1998. Cornell University, Ithaca, NY.

1997. Department of Geology, University of Missouri, Colombia.

1997. Estuarine Research Federation National Meeting, Providence, R.I., October.

1997. Chemical Oceanography Gordon Conference, Meriden NH, August.

1997. Swedish Agricultural University at Uppsala, and

1997. University of Linkoping, Sweden, August.

1997. Canadian National Centre of Excellence on Sustainable Forestry Management, Workshop on Carbon Cycling, University of Alberta, Edmonton, January 20.

1996. Invited participant, IGBP- Land-ocean interactions in the coastal zone. July 6-10,

Moscow, Russia.

1996. Invited speaker, Conference on Sustainable Forestry, Edmonton, Alberta, Canada

G. Academic Service

2020. R.O. Lawton Distinguished Professor Award Committee.

2019. Chair, R.O. Lawton Distinguished Professor Award Committee.

2019. Director EOAS Aquatic Environmental Science MS program

Chair, EOAS undergraduate Environmental Science BS program

Chair, EOAS Oceanography graduate program

Chair, EOAS Graduate program

2020. Organized session at Oil Spill Gulf Meeting, on Tracers to follow the oil. Tampa Florida, February, 2020.

2018. November 20-22. Marine Oil Snow Sedimentation workshop organizer and session leader. Sponsored by Gulf of Mexico Research Institute. Galveston, Texas.

2018. Panel Reviewer, Environmental System Science Funding Opportunity (DE-FOA-0001855) Review Panel held May 9-10, Washington, DC. "Terrestrial-Aquatic Interfaces"

2017-2019. NOSAMS-WHOI Advisory and Planning board member.

2012-2017. FSU representative to state-wide discipline committee for state-wide common program prerequisites

2010-2016. Director FSU Environmental Science Undergraduate Program

2005-2016. Director FSU Aquatic Environmental Science MS Program and Professional MS Program

2010-2013 Florida Climate Institute Steering Committee.

2010 Faculty advisor, ACC Leadership Conference, Feb 19-21, Tallahassee.

2007-2015 Faculty advisor for the FSU Environmental Service Program.

2007 Faculty. Austral Summer Institute, University of Concepcion, Chile.

2005-2007 Director Aquatic Environmental Science Masters program, FSU.

2004-11 Associate editor, Journal of Geophysical Research, Biogeosciences.

2005-15 FSU Science Education Advisory Board.

2003. Faculty. Stable Isotopes in Biogeochemistry and Environmental Science. Mekrijarvi Research Station, Finland. Graduate students and faculty (25) attended from the Universities of Helsinki, Joensuu, Jyväskylä and Kuopio, the Finnish Forest Research Institute, the National Public Health Institute, the Agrifood Research Institute and the Finnish Institute of Marine Research. October 7-10, 2003.

2002 Invited Participant. NSF & American Society of Limnology and Oceanography workshop participant for Emerging Research Issues for the Study of Inland Waters. Boulder Colorado, December, 2002.

1999 Co-Chair, measurement task group, SCOR working group 112, meeting in Birmingham, UK joint with IUGG.

- 1999 Discussion leader, Marine Minerals Resources meeting on Gas Hydrates in the Gulf of Mexico, Biloxi, Mississippi.
- 1998 Associate member, SCOR Working Group on the Magnitude of Submarine G
- 1998 NOAA/Apalachicola National Estuarine Reserve proposal review panel.
- 1998 Co-chaired session on Groundwater discharge to the Ocean at AGU Ocean Science meeting, San Diego, February, 1998.
- 1999 1995-1999, Advisory Board Member of Southeastern Regional Center of the National Institute for Global Environmental Change (NIGEC is a DOE division).
- 1996 Invited participant Joint NASA-EPA workshop on application of remote sensing. Washington, DC, December 12 & 13.
- 1996 Invited participant and reporter, Joint North American-European workshop on Measurement and Modeling of Methane Fluxes from Landfills (IGBP-Igac-Tragex). Oct. 21-24, Argonne National Labs, USA.
- 1996 Invited participant and panel member, IGBP/GAIM (International Geosphere Biosphere Programme/Global Analysis, Interpretation and Modeling) workshop. May 15-20, 1996, Santa Barbara, CA.

H. Public Service and Community Outreach

In 2005 I received an Aldo Leopold Fellowship Award. The Leopold Leadership Program advances environmental decision-making by providing academic scientists with the skills and connections needed to be effective leaders and communicators. I received intensive training to better communicate the science associated with complex environmental issues to the media, policy makers, business leaders and non-scientists. My work listed above has taken been aided by this training, but I was pursuing this path prior to receiving the Leopold training. In 2005 I received an award as the Florida Wildlife Federation Conservation Communicator of the Year. I have given multiple presentations to elected officials, their delegates, and the public on the science of climate change, sea level change and the oil spill. I help organize a summit on Alternative Energy this fall at Eckerd College.

1. State and federal government. I was one of 10 scientists who responded to Governor Scott's statement that "he was not a scientist" and thus could not respond to questions about climate. We wrote a letter, got national publicity and were able to achieve a meeting with the governor as well as his democratic challenger, former governor Charlie Crist. I gave a number of interviews last summer including "Here and Now" on national public radio. I've also given presentations to the Secretaries of the Florida Department of Environmental Protection, Michael Sole and Colleen Castille. I've also given presentations to the former Ombudsman of DEP and to the Florida Fish and Wildlife Conservation Commission. I've given a brief presentation to and met twice with former Federal Congressman Allen Boyd and met with Gwen Graham and the staff of Senators Nelson and Martinez.
2. Public Utilities and Planners. In the last several years I've participated in debates concerning the interaction of human activity and the earth's climate and the effect on Sea Level for groups such as the Florida Electric Cooperative Association, the Florida Chapter of the American Planning Association, the Florida Municipal Electric Association & Florida Municipal Power Association, and the Florida Gas Utility.
3. The general public. I have given presentations at the Rotary Club, the Civitan Club, the Presbyterian Church, the local Synagogue, the Unitarian Church, the Universalist Church and in a

variety of other venues aimed at the public at large including Ray's Steel City Saloon, Waterworks, and Cabo's Tacos. With my wife I formed a local non-profit corporation devoted to environmental education.

2019 Outreach.

Leon High School Climate History, Sea Level and effects on Florida December 2018

Tallahassee School of Arts and Science Climate History, Sea Level and effects on Florida January 2019

Florida Audubon Society, Sea Level and effects on Florida April 2018

FSU Presidential Scholars Climate History, Sea Level and effects on Florida January 2019

Friends of St. Vincent National Wildlife Refuge, Climate History, Sea Level and effects on Florida Feb 17, 2019

Lake Jackson Aquatic Preserve, the Nitrogen Cycle. feb 19, 2019

2020 Outreach

Outreach Presentations.

Osher Lifelong Learning Institute, C-30A, FSU Panama City. March 10. climate change history.

FSU chapter of Take back the tap. Food and Water Insecurity. March 9.

March 2020. WFSU TV, Coastal Ecology Blog and Video.

<https://youtu.be/KwxRSM8eleQ>

https://blog.wfsu.org/blog-coastal-health/?p=14722&utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+wfsu%2FCoastalHealth+%28WFSU+Ecology+Blog%29

May 2020, Jordan Anderson <jnanderson@fsu.edu, interview on ecological effects of Covid-19 on earth's ecosystems.

Interview on Covid 19 <https://news.fsu.edu/news/2020/04/08/fsu-researcher-available-to-comment-on-unintended-environmental-impacts-of-covid-19/>

Lecture on Climate System, April 15, St. John Episcopal Church, Tallahassee. Canceled due to virus

Lecture on Climate System, April 23, Trinity Methodist Church, Tallahassee. Canceled due to virus

Lecture on Climate System, Aprils 22, Leon High School with Colleen Graham, Canceled due to virus

I. Peer Reviewed Journal Articles: *Student first authored papers, author in italics.*

Google Scholar H-index 85 with 21,423 citations.

In preparation.

Paeng J., Glaser, P. H., Chanton, J. P., Corbett, J. E., and Dittmar, T. Dissolved black carbon in peatlands of northern Minnesota, USA, in prep.

In Review. *Student first authored papers, author in italics.*

- Tfaily, M. M., R. A. Tabrizi, R. M. Wilson, J. D. Fudyma, S. B. Hodgkins, H. M. Heyman, V. I. Rich, S. R. Saleska and J. P. Chanton. Controls on soil organic matter degradation and subsequent greenhouse gas emissions across a permafrost thaw gradient in Northern Sweden. Submitted April 30, 2020. Journal: *Frontiers in Earth Science*, section Biogeoscience
- Rogers, J.A., V. Galy, A. M. Kellerman, J. P. Chanton, N. Zimov, R. G. M. Spencer. Ramped Pyrolysis Oxidation for Investigating Permafrost Contribution to Dissolved Organic Matter in the Kolyma River
- Bolduc, B, SB Hodgkins, RK Varner, PM Crill, CK McCalley, JP Chanton, GW Tyson, WJ Riley, M Palace, MB Duhaime, MA Hough, SR Saleska, MB Sullivan, VI Rich. The IsoGenie Database: An interdisciplinary data management solution for ecosystems biology research. Submitted to PeerJ. 4/27/20.
- Loisel, J. Gallego-Sala, A.V., Amesbury, M.J., Magnan, G., Anshari, G, Beilman, D., Benavides, J.C., Blewett, J., Camill, P., Charman, D.J., Chawchai, S., Hedgpeth, A., Kleinen, T, Korhola, A., Large, D., Mansilla, C.A. 14, Müller, J., van Bellen, S., West, J.B., Yu, Z., Bubier, J., Garneau, M., Moore, T., Sannel, A.B.K., Page, S., Väiliranta, M., Bechtold, M., Brovkin, V., Cole, L.E.S., Chanton, J.P., Christensen, T., Davies, M.A., De Vleeschouwer, F. , Finkelstein, S. , Frohling, S. et al. Future vulnerability of the global peatland carbon sink. submitted to *Nature Geosciences*, November, 2019
- Estop-Aragonés, C., , D. Olefeldt, B W. Abbott, J. Chanton, C. I Czimeczik, J. F. Dean, J. E. Egan, L. Gandois, M. H. Garnett, I. P. Hartley A. Hoyt, M. Lupascu, S. M. Natali, J. A. O'Donnell, P A. Raymond, A J. Tanentzap, S E. Tank, E.A.G. Schuur, M. Turetsky, K. Walter Anthony A Synthesis of 14C Measurements from the Northern Permafrost Region: Assessing the Potential for Mobilization of Old Soil Carbon after Permafrost Thaw. Submitted to *Global Biogeochemical Cycles*, April 11, 2019.
- Rogers, K. L., S. H. Bosman, B. E. Rosenheim, J. P. Montoya, D. Hollander, T. Zhao, J. P. Chanton. Mapping spatial and temporal variation of seafloor organic matter $\Delta^{14}\text{C}$ and $\delta^{13}\text{C}$ in the Northern Gulf of Mexico following the Deepwater Horizon Event. Submitted to *Environmental Pollution*, Aprils 22, 2020.
- Ngatia, L., K. S Iglett; F. Hinz, A. A. Normand; P. Inglett, J. Chanton, R. K. Reddy, Drivers Of Methanogenesis Pathways In Subtropical Wetlands: Florida Everglades As A Case Study, submitted to *Organic Geochemistry*, March 20, 2018.
- Lincoln, S., E.D. Matys, W.A. Overholt, S. Alpheus, S. Bosman, D.W. Hastings, J.P. Chanton, D.J. Hollander, J.E. kostka, R.E. Summons, K.H. Freeman. Benthic source of an anammox-associated biomarker, bacteriohopanetetrol II, underlying oxic Gulf of Mexico waters. *Organic Geochemistry*, submitted, September 24, 2018.
- Nugent, K.; Strachan, I.; Strack, M.; Roulet, N.; Strom, L. ; Chanton, J. Cutover peat limits methane production causing low emission at a restored peatland. Submitted to *Global Change Biology*, December 20, 2019. GCB-19-2267.
- Burd, A., A. Quigg, J.P. Chanton, K. Daly, S. Gilbert, U. Passow, The Science Behind Marine-Oil Snow and MOSSFA: Past, Present, and Future. Submitted to *Progress in Oceanography*, January 2020.

- Ricciuto, D.M. X. Xu, X. Shi, Y. Wang, X. Song, C. W. Schadt, N. A. Griffiths, J. Mao, J. M. Warren, P. E. Thornton, J. Chanton, J. K. Keller, S. Bridgham, J. Gutknecht, S.D. Sebestyen, A. Finzi, R. Kolka, P. J. Hanson, An Integrative Model for Soil Biogeochemistry and Methane Processes: I. Model Structure and Sensitivity Analysis. *Journal of Geophysical Research - Biogeoscience*
- Shuang Ma, R.M. Wilson, J. Chanton, S. Brigham, S. Niu, C. M. Iversen, A. Malhotra, J. Jiang, X. Lu, J. Keller, X. Xu, D. Ricciuto, P. J. Hanson, Y. Luo. Climate warming stimulates methane emission by increasing methane production and reducing methane oxidation: Results from data-model fusion. submitted to *Global Biogeochemical Cycles* April 5, 2020
- Holmes, M. E., P. M. Crill, W. C. Burnett, C. K. McCalley, R. M. Wilson, S. Frolking, K.-Y. Chang, W. J. Riley, R. K. Varner, S. B. Hodgkins, IsoGenie Project Coordinators, IsoGenie Field Team, V. I. Rich, S. R. Saleska, J. P. Chanton. Carbon Accumulation, Flux, and Fate in Stordalen Mire, a Permafrost Peatland in Transition. Submitted to *Global Biogeochemical Cycles*, April 2020.

Student first authored papers, author in italics. Reviewed articles.

In press, accepted for publication

303. Hanson, P. J., N. A. Griffiths, C. M. Iversen, R. J. Norby, S. D. Sebestyen, J. R. Phillips, J. P. Chanton, R. K. Kolka, A. Malhotra, K. C. Oleheiser, J. M. Warren, X. Shi, X. Yang, J. Mao, D. M. Ricciuto. Rapid Net Carbon Loss From A Whole-Ecosystem Warmed Peatland, *AGU Advances*.
302. Hopple, A. M., R. M. Wilson, M. Kolton, C. A. Zalman, J. P. Chanton, J. Kostka, P. J. Hanson, J. K. Keller, and S. D. Bridgham. Massive peatland carbon banks vulnerable to rising temperatures. *Nature Communications*.
301. Morrison, E. P. Thomas, A. Ogram, T. Kahveci, B.L. Turner, J. Chanton. Characterization of bacterial and fungal communities reveal novel consortia in tropical oligotrophic peatlands. Revised and resubmitted to *Microbial Ecology*, Accepted December 30, 2019.

2020.

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